

IUBMB Enzyme Nomenclature**EC 1.11.1.7**

Common name: peroxidase

Reaction: donor + H₂O₂ = oxidized donor + 2 H₂O

Other name(s): myeloperoxidase; lactoperoxidase; verdoperoxidase; guaiacol peroxidase; thiocyanate peroxidase; eosinophil peroxidase; Japanese radish peroxidase; horseradish peroxidase (HRP); extensin peroxidase; heme peroxidase; MPO; oxyperoxidase; protoheme peroxidase; pyrocatechol peroxidase; scopoletin peroxidase

Systematic name: donor:hydrogen-peroxide oxidoreductase

Comments: A hemoprotein.

Links to other databases: [BRENDA](#), [EXPASY](#), [KEGG](#), [WIT](#), CAS registry number: 9003-99-0

References:

1. Kenten, R.H. and Mann, P.J.G. Simple method for the preparation of horseradish peroxidase. *Biochem. J.* 57 (1954) 347-348.
2. Morrison, M., Hamilton, H.B. and Stotz, E. The isolation and purification of lactoperoxidase by ion exchange chromatography. *J. Biol. Chem.* 228 (1957) 767-776.
3. Paul, K.G. Peroxidases. In: Boyer, P.D., Lardy, H. and Myrbäck, K. (Eds.), *The Enzymes*, 2nd ed., vol. 8, Academic Press, New York, 1963, p. 227-274.
4. Tagawa, K., Shin, M. and Okunuki, K. Peroxidases from wheat germ. *Nature (Lond.)* 183 (1959) 111.
5. Theorell, H. Preparation and properties of crystalline horseradish peroxidase. *Ark. Kemi Mineral. Geol.* 16A (1943) No.2. 11pp

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